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Do not assume content reflects current scientific knowledge, policies, or practices.





### WATER SUPPLY OUTLOOK FOR ARIZONA

Prepared by

### U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

SALT RIVER VALLEY WATER USERS ASSOCIATION and ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report. MAR. 15, 1972

### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Neva da	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources, Parliament Building, Victoria, British Columbia

### WATER SUPPLY OUTLOOK FOR ARIZONA

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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### INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	OBSERVER
11P10-A	Agassiz	32	23N	7E	11200	Little Colorado	SCS-USBR
11R7 11R6 9S1-A 9S15 9S16 10T1 9S6 12P5 12P4 9S10-* 12N1	Baker Butte #2 Baker Butte (p) Baldy (p) Baldy #2 Baldy #3 Bear Wallow Beaver Head Bill Williams Intermediate Bill Williams Summit Black River Oivide Bright Angel	9 4 28 12 13 6 13 17 17 10 34	12N 12N 7N 6N 6N 12S 4N 21N 21N 6N 33N	9E 9E 27E 26E 26E 16E 30E 2E 2E 27E 3E	7700 7300 9125 9750 10950 8100 8000 8550 8950 9400 8400	Verde Verde Little Colorado Little Colorado Little Colorado Gila San Francisco Cataract Verde Salt Bright Angel Creek	SCS SCS SCS SCS-FS SCS-FS FS PVt-SRP FS FS SCS KNPS
12R1 10R7-M 10R9 12P1-M 9R7 12R6 10R8-* 9S7 9T2-A	Camp Wood Canyon Creek #2 Canyon Point (p) Chalender Cheese Springs Copper Basin Oivide (p) Corduroy Creek Coronado Trail Grazy Horse	3 18 28 27 28 23 4 26 34	16N 11N 11N 22N 8N 13N 8N 5N	6W 15E 14E 3E 27E 3W 21E 30E 24E	5700 7500 7600 7100 8600 6720 6000 8000 10200	Verde Little Colorado Salt Verde Little Colorado Verde Salt San Francisco Gila	FS SCS SCS FS SCS SCS SCS FS
7T1	Emory Pass #1	16	16S	9W**	7800	Mimbres	SCS
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS
10R6	Forest Dale	2	9N	21E	6430	Salt	BIA
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS
11P2	Ft. Valley (p)	22	22N	6E	7350	Little Colorado	FS
8S1-M	Frisco Divide	31	6S	20W**	8000	San Francisco	FS
]2R4	Gaddes Canyon	11	15N	2E	7600	Verde	Pvt
]1P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS
9S11	Hannagan Meadows (p)	19	3N	29E	9090	San Francisco	Pvt
11R5	Happy Jack	30	16N	9E	7630	Verde	FS
9R10	Hawley Lake	13	7N	24E	8300	Salt	BIA
10R4	Heber (p)	28	11N	15E	7600	Little Colorado	SCS
9T1-A	High Peak	34	8S	24E	10500	Gila	FS
8S9-A	Hummingbird	19	11S	17W**	10550	Gila	Pvt-SCS
11P9	Inner Basin #1 (p)	28	23N	7E	10000	Little Colorado	SCS-USBR
11P8	Inner Basin #2 (p)	28	23N	7E	9750	Little Colorado	SCS-USBR
11P7	Inner Basin #3	3	23N	7E	10250	Little Colorado	SCS-USBR
12R2	Iron Springs	22	14N	3W	6200	Bill Williams	SCS
9S2-A	Maverick Fork (p) McKnight Cabin McNary Milk Ranch Mingus Mountain Mogollon Mormon Lake Mormon Mountain (p) Mt. Ord	13	6N	27E	9150	Salt	SCS
7S3-A		10	15S	10W**	9300	Mimbres	Pvt-SCS
9R2-M		23	8N	23E	72000	Salt	BIA
9R1		33	8N	23E	7000	Salt	BIA
12R3		3	15N	2E	7100	Verde	Pvt
8S2		2	11S	19W**	7000	San Francisco	Pvt
11R4		13	118N	8E	7350	Little Colorado	SCS
11R3-M-A		14	18N	8E	7500	Verde	SCS
9S12-A		4	6N	26E	11200	Salt	SRP-SCS
11P5-M	Newman Park	25	19N	6E	6750	Verde	SCS
9S4	Nutrioso	23	6N	30E	8500	San Francisco	FS
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	Pvt
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS
8S8	Silver Creek Oivide	4	11S	18W**	9000	San Francisco	Pvt
9S14-A	Smith Cienega	10	6N	26E	10050	Salt	SRP-SCS
11P4	Snow Bowl #1 (p)	36	23N	6E	10260	Verde	FS
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS
9S8	State Line	6	6S	21W**	8000	San Francisco	FS
9517	Sunrise Summit	36	7N	26E	10600	Salt	FAIR
12P2	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS
12R5	White Spar	19	13N	2W	6000	Verde	SCS
8S10-A	Whitewater	19	11S	17W**	10750	Gila	Pvt-SCS
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS
9R6	Wilson Lake (p)	4	7N	26E	9000	Salt	SCS
10S1	Workman Creek	33	6N	14E	6900	Salt	FS

M SOIL MOISTURE STA.

A AGRIAL SNOW DEPTH MARKER

\*\* SOIL MOISTURE STA. ONLY

\*\* NM Principal Merician

### ARIZONA WATER SUPPLY OUTLOOK

MARCH 15, 1972

Seasonal runoff is expected to be only one-fourth to onethird of average, but reservoir storage is near normal. Water supplies will generally be adequate except in areas depending on direct river diversions.

### SNOW COVER

No significant snowfall has occurred since December. There is now less snow than last year everywhere except at the highest elevations. With temperatures averaging 10 to 15 degrees above normal the last two weeks, there is virtually no snow left below 9,000'. Above 10,000', however, there is 4 to 5' of snow containing 12 to 19" of water.

### PRECIPITATION

This is the driest January-March period on record with most stations reporting no more than a trace of precipitation up to the 15th of March. Even with the good storms last December, precipitation since November 1 is only 41% of average on the Verde, 50% on the Salt, and 65% on the Gila and Little Colorado.

### SOIL MOISTURE

Surface soils are drying, but subsoil moisture is good. Fair water yields could still occur from the higher elevations if <a href="heavy">heavy</a> precipitation is received soon.

### RESERVOIR STORAGE

Slightly above normal amounts of water are in storage in Lake Pleasant and San Carlos Reservoir. The half-full Salt River Project Reservoirs contain 92% of average, just slightly more than in storage a year ago.

### STREAMFLOW AND WATER SUPPLY

The unseasonable warm temperatures have increased the flow of the Salt and Little Colorado Rivers. They probably have reached their peak, however, and will slowly decline unless heavy precipitation occurs soon. The Verde and Gila Rivers were practically unaffected by the warm spell.

With only about four weeks of the winter storm period left, the probability of moderate storms is diminishing. Streamflow forecasts have been drastically reduced with record low flows possible on the Tonto and Verde Rivers. March through May streamflow from Arizona watersheds will be 25 to 33% of average.

If no significant precipitation occurs in the next thirty days, ranges will be in poor condition and fire danger will be critical until the summer rains begin.



ABOUT MARCH

STREAMFLOW FORECASTS 15, 1972	THIS YEAR PAST RECORD					
		CAST	FORECAST	THOUSAND	7	
BASIN STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +	
SALT RIVER DRAINAGE						
Salt near Roosevelt Tonto Creek near Roosevelt Verde River above Horseshoe	65 2.5 30	32 11 28	Mar-May Mar-May Mar-May	42.7 2.9 36.9	202.4 22.5 106.5	
GILA RIVER DRAINAGE  Gila River at Calva  Gila River near Gila  Gila River near Solomon  Gila River near Solomon  Gila River near Virden  Frisco River at Clifton  Frisco River at Glenwood	8 15 24 10 13 12 4	20 46 33 26 36 31 25	Mar-May Mar-May Mar-May March Mar-May Mar-May	5.1 8.6 12.0 5.1 6.6 7.5 3.1	39.8 32.3 73.0 38.4 36.3 38.7 16.0	
MIMBRES RIVER DRAINAGE  Mimbres River near Mimbres	.6	25	Mar-May	0.4	2.4	
COLORADO RIVER DRAINAGE  Little Colo. River above Lyman Dam Colorado River Lake Powell Inflow *	2.1 7.444		Mar-June Apr-July	0.9	7.8 6527.0	
VIRGIN RIVER DRAINAGE  Virgin River nr. Littlefield	27	81 ,	Apr <b>-</b> June	17.4	33.4	
GRANITE CREEK DRAINAGE						
Granite Creek Willow Creek	,5 ,2		Mar-May Mar-May			
<pre>Based on the 15-year period, 1953-67  * Forecast issued by Soil Conservation Service Salt Lake City, Utah The Gila River near Solomon is e April 1.</pre>	xpected	to dro	p to 100	cfs abou	t	
	- 2					

JULIUANO RIVER ELAINAGE

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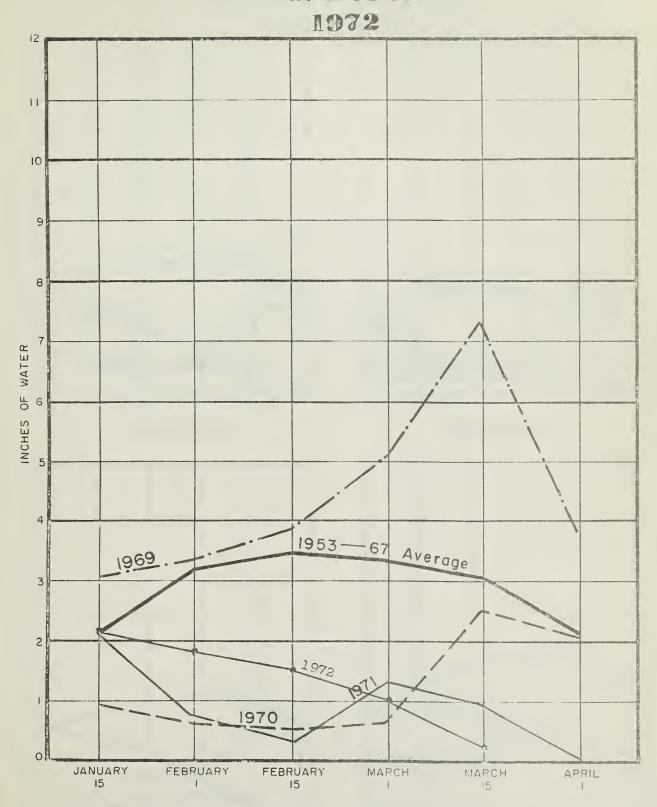
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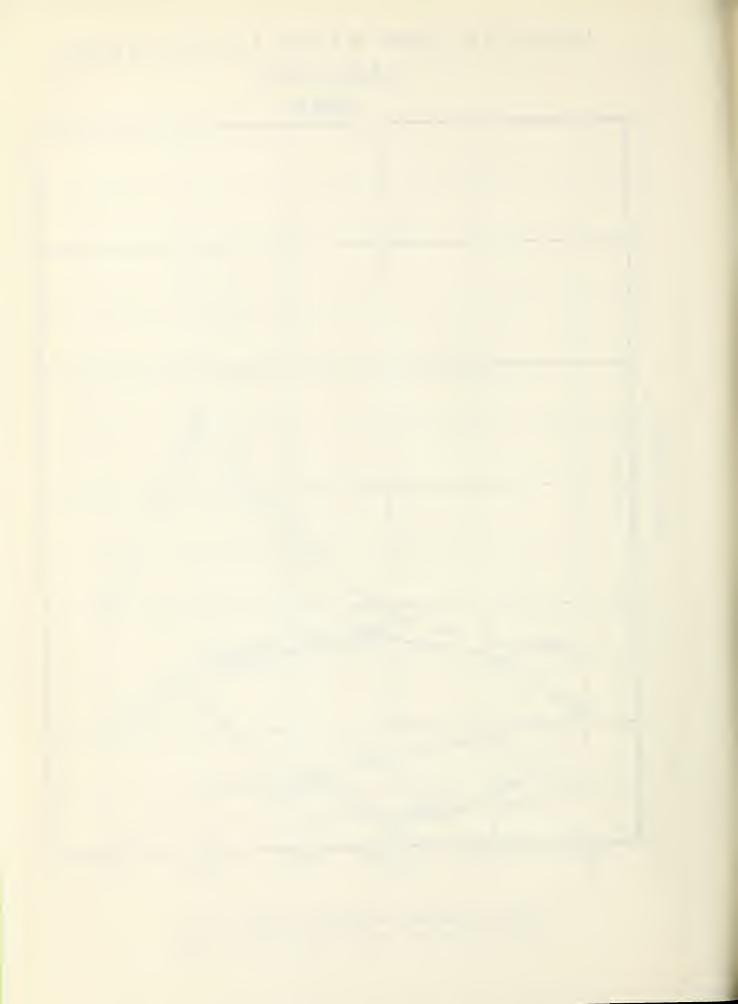
	E (INCUSAND ACTE FEEL) MID-MONTH READING AD		Usable Storage			
Basin or Stream	RESERVOIR	Usable Capacity	This Year	Last Year	Average +	
GILA RIVER DRAINAGE						
Agua Fria	Lake Pleasant	157.6	54.8	74.2	42.7	
Granite	Watson Lake	4.7	3.2	1.9		
Granite	Willow Creek	6.1	1.6	1.1		
Gila	San Carlos	948.6	113.8	2.3	111.4	
Verde (2)	Bartlett & Horseshoe	317.7	69.3	165.4	123.3	
Salt (4)	Roosevelt, Apache, Canyon & Saguaro	1755.0	953.1	899.8	986.7	
COLORADO RIVER DRAINAGE						
Colorado	Lake Havasu	619.4	540.9	548.1	537.6	
Colorado	Lake Mohave	1810.0	1,666.0	1702.9	1708.5	
Colorado	Lake Mead	26159.0	17,526.0	16460.0	16268.3	
Colorado	Lake Powell	25002.0	13,295.0	12376.0		
Little Colorado	Lyman	30.6	9.6	11.6	9.7	
Little Colorado	Show Low Lake	5.1	1.6	0.3	1.7	
+ Based on 15-ye * Average is for	ar period, 1953-67 less than 15 years	of recor	ģ			
		<b>-</b> 3 <b>-</b>				



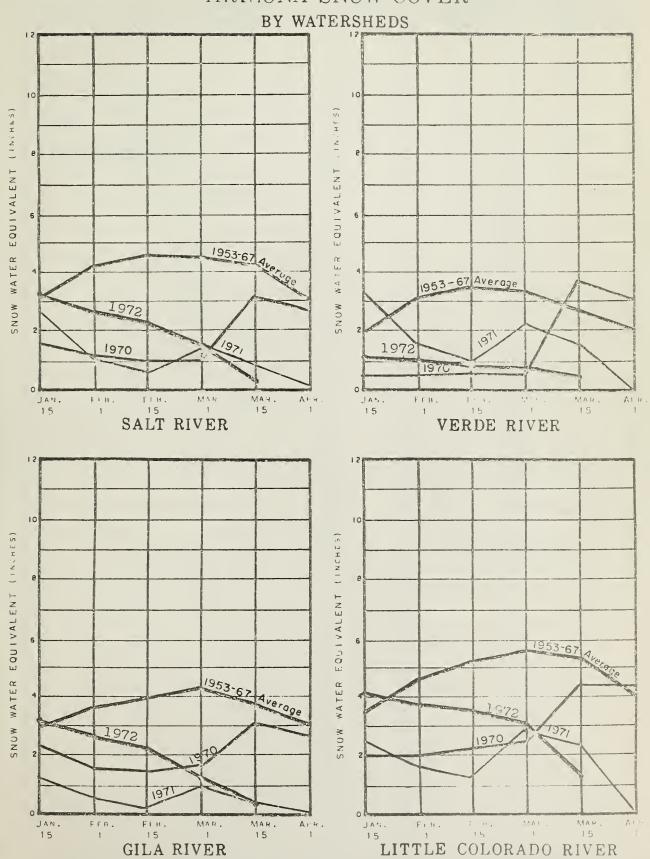
### RELATIVE SNOW WATER ACCUMULATION ARIZONA



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.



1972 ARIZONA SNOW COVER





MMARY OF SNOW MEASUREMENTS (COMPARISON WI	<del>- ,</del>	ABOUT MARCH 15, 1972  THIS YEAR'S SNOW WATER AS PERCENT OF:			
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	Last Year	Average		
Gila	10	89	11		
Co.1+					
Salt	10	30	7		
Verde					
veide	10	22	14		
Little Colorado	_				
220020 00101000	5	52	26		



### WATER SUPPLY INVENTORY

### SALT RIVER VALLEY SYSTEM

MARCH 15, 1972

3,000,000

2,500,000

Runoff

Average Spring
Runoff

1,000,000

民

 $\circ$ 

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Average Storage

500,000

### ANTICIPATED 1972 SUPPLY \*

Average Summer Runoff Forecast Runoff (March 15-May)

Present Storage

<sup>\*</sup> Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff



PRECIPITATION AT SELECTED ARIZONA STATIONS  $\frac{1}{2}$ 

	Precipitation (Inches)							
		1.050	Current Water Year					
STATION	Febr	uary - 1972	(Oct. 1971-February 1972					
	Total	Departure from Normal	Total	Departure from Normal				
	10101	NOTIGET	IOtal	MOTIMAT				
Alpine	Т	- 1.38	8.29	+ 1.51				
Ash Fork	Т	- 1.15	2.29	- 2.48				
Clifton	0	91	4.50	+ .22				
Douglas Smelter	0	59	3.52	+ .44				
Flagstaff WSO*	.02	<b>-</b> 1.76	8.97	+ 1.19				
McNary	.12	- 2.02	14.41	+ 4.17				
Payson Ranger Station	0	- 2.19	6.01	- 3.05				
Phoenix WSFO**	Т	85	.74	- 2.64				
Prescott (City)	.06	- 1.88	4.10	<b>-</b> 3.89				
Springerville	Т	53	2.70	27				
Tucson WSO*	0	84	3.84	0				
Winslow WSO*	Т	48	1.98	47				
Yuma WSO*	0	<b>-</b> .36	.15	- 1.42				

Data and Analysis furnished by Paul C. Kangieser NOAA Climatologist for Arizona National Weather Service, Phoenix

WSO\* Weather Service Office

WSFO\*\* Weather Service Forecast Office

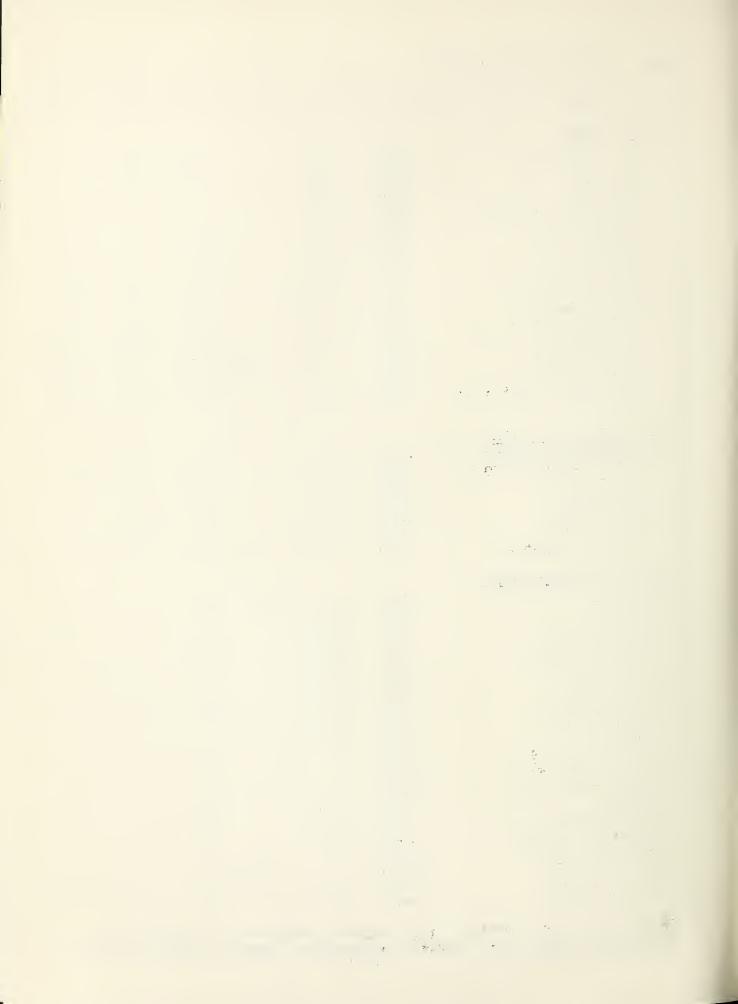


NOW ABOUT MARCH 15, 1972		THIS YEAR	PAST RECORD			
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)  Last Year Average +	
NAME	Elevation	or survey	(menes)	(ilicites)	Last Year	Average
CTI A DTIMED						
GILA RIVER Bear Wallow	8100	3/14	0	0.0	0.4	3.7
Beaver Head	8000	3/14	0	0.0	0.0	2.0
Coronado Trail	8000	3/14	0	0.0	0.0	1.2
Crazy Horse (A)	10200	5/14				
Emory Pass #1 *	7800	3/14	0	0.0	0.0	
Emory Pass #2 *	<b>7</b> 800	3/14	0	0.0	0.0	
Frisco Divide	8000	3/14	0	0.0	0.0	1.5
Hannagan Meadows *	9090	3/14	0	0.0	0.0	9.1*
High Peak (A)	10500	5/ I <del>-</del>				9.1
Hummingbird (A)	10550	3/10	20	9.1	4.3	16.2*
McKnight Cabin * (A)	9300	3/14	0	0.0	0.0	10.2.
Mogollon (A)	<b>7</b> 000	3/14	0	0.0	0.0	1.1
Nutrioso	8500	3/14	0	0.0	0.0	1.0
Redstone Trail	8600	3/12	0	0.0	1.4	6.9*
Rose Canyon	7300	3/14	0	0.0	0.0	1.4
Silver Creek Divide	9000	3/14	11	4.0	2.9	11.4*
State Line	8000	3/14	0	0.0	0.0	1.1
Whitewater (A)	10750	3/14	55	19.1	8.7	19.5*
Will tewater (A)	10750	3/10		19.1	0.7	19.5"
SALT RIVER						
Baldy *	9125	3/14	2	0.6	2.0	6.8
Beaver Head	8000	3/14	0	0.0	0.0	2.0
Canyon Creek	7500	3/14		0.0	0.4	2.1*
Canyon Point	7600	3/14		0.0	0.4	2.5*
Coronado Trail	8000	3/14		0.0	0.0	1.2
Forest Dale	6430	3/14		0.0	0.0	0.2
Ft. Apache	9160		6		3.8	7.4
Hannagan Meadows	9090	3/14		2.1	1	9.1
Hawley Lake	8300	3/14	0	0.0	0.2	
Heber	<b>7</b> 600	3/14	0	0.0	1.1	5.97
Maverick Fork	9050	3/14	0	0.0	1.0	2.1
McNary	7200	3/14	0	0.0	2.0	8.4
		3/14		0.0	0.0	1.3
Milk Ranch	7000	3/14	0	0.0	0.0	0.5
Mt. Ord (A)	11000	2/14			12.3	20.27
Nutrioso *	8500	3/14	0	0.0	0.0	1.0
Smith Cienega (A)	9850	DEDO	TE DETAS		8.5	15.17
Sunrise Summit	10600	REPOI				
Wilson Lake	9000	3/14	11	4.1	7.4	9.7
Workman Creek	6900	3/14	0	0.0	0.0	3.4
BILL WILLIAMS RIVER						
Camp Wood *	F.7700	0 /3 4				
-	5 <b>7</b> 00	3/14	0	0.0	0.0	0.3
Copper Basin Divide	6720	3/14	0	0.0	0.0	0.67
Iron Springs	6200	3/14	0	0,0	0.0	0.2
+1953-67 15-year period.	(*) Ad	liacent	drainage	(**)	1953-6	7
Adjusted average. (A) Ae	rial obs	ervation	n: Wate	er conte	nt esti	merted.



ABOUT MARCH 15, 1972	ſ		THIS YEAR		PAST RE	
DRAINAGE BASIN and/or SNOW COURSE		Date	Snow Depth	Water Content	Water Conte	
NAME	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average +
VERDE RIVER						
Baker Butte	<b>7</b> 300	3/14	0	0.0	1.6	3.8**
Baker Butte #2	7700	3/14	1	0.5		
Camp Wood	5700	3/14	0	0.0	0.0	0.3
Chalender	7100	3/14	0	0.0	0.6	1.6
Copper Basin Divide	6720	3/14	0	0.0	0.0	0.6**
Fort Valley	7350	3/14	0	0.0	0.0	1.1
Gaddes Canyon	<b>7</b> 600	3/14	0	0.0	3.5	3.7**
Happy Jack	<b>7</b> 630	3/14	0	0.0	0.3	1.5
Iron Springs *	6200	3/14	0	0.0	0.0	0.2
Mingus Mountain	7100	3/14	0	0.0	0.0	0.3
Mormon Lake *	7350	3/14	0	0.0	1.1	2.3
Mormon Mountain	7500	3/14	0	0.0	1.9	3.4
Newman Park	6750	3/14	0	0.0	0.0	1.1**
Snow Bowl #1	10260	ио	SUR	VEY	7.6	8.9**
Snow Bowl #2	11000	ИО	SUR	VEY	9.1	14.0**
White Horse Lake Jct.	7150	3/14	0	0.0	0.0	
White Spar	6000	3/14	0	0.0	0.0	0.2*
WILL DE SPET						
LOWER COLORADO RIVER						
Bill Wms. Intermediate	8550	3/14	0	0.0	4.2	
Bill Williams Summit	8950	3/14	7	2.5	7.7	
Bright Angel	8400	3/14	0	0.0		
Chalender *	7100	3/14	Ö	0.0	0.6	1.6
Fort Valley	<b>7</b> 350	3/14		0.0	0.0	1.1
Grand Canyon	<b>7500</b>	3/14	0	0.0	0.0	0.9
Williams Ski Run	7720	3/14	0	0.0	6.5	0.5
WIIIIallia DKI Kuli	7720	3/14		0.0	1 0.5	
LITTLE COLORADO RIVER						
Agassiz	11200			1		
Baldy	9125	3/14	2	0.6	2.0	6.8
Canyon Creek	7500	3/14	0	0.0	0.4	2.1*
Canyon Point	7600	3/14	0	0.0	0.4	2.5*
Cheese Springs	8600	3/14	1	0.3	4.9	
Forest Dale	6430	3/14	0	0.0	0.0	0.2
Ft. Apache	9160	3/14	6	2.1	3.8	7.4
	7350	3/14	0	0.0	0.0	1.1
Fort Valley				1		1.5
Happy Jack *	7630 7600	3/14	0	0.0	0.3	
Heber	7600	3/14		0.0	1.0	2.1
Inner Basin #1	10100					
Inner Basin #2	9750					
Inner Basin #3	10250	0 /7 /				
McNary	7200	3/14	0	0.0	0.0	1.3
Mormon Lake	7350	3/14	0	0.0	1.1	2.3
Mormon Mountain	7500	3/14	0	0.0	1.9	3.4
Nutrioso	8500	3/14	0	0.0	0.0	1.0
Snow Bowl #1	10260	ИО		VEY	7.6	8.9*
Snow Bowl #2	11000	NO		SAEA	9.1	14.0*
Wilson Lake *	9000	3/14	11	4.1	7.4	9.7*
+ 1052 67 15	(+) 0.3			( deda )	1052 67	
† 1953-67 15-year period.	(*) Ad.	Jacent d	nainage	. (**)		
Adjusted average. (A) Ae	rial opse	ervation	wate	conter	It estim	ejteu.

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PRECIPITATION (Inches) ABOUT MARCH 15, 1972
CURRENT INFORMATION FROM APPROX. NOV. I TO DATE DRAINAGE BASIN and Percent of ELEVATION Date of Month's Average Average + PRECIPITATION GAGE LOCATION This Year Precipitation Reading Average GILA RIVER Silver Creek Divide 3/12 9000 0 1.30\* 9.06 12.121 75 Hannagan Meadows 9030 3/14  $\bigcirc$ 6.52 1.57\* 11.67\* 56 Frisco Divide 8000 3/14 0 3.81 SALT RIVER 3/14 Canyon Point 7600 0 1.97\* 15.16\* 44 6.62 Hannagan Meadows 9030 3/14 0 1.57\* 6.52 56 11.67\* Little Wildcat (Heber Snow Course) 7600 3/14 0 1.57\* 7.62 12.94\* 59 Maverick Fork 9050 3/14 0 1.29\* 7.23 11.22\* 64 Workman Creek \*\* 6970 3/14 0 1.69 4.25 15.57 27 Wilson Lake 9100 3/14 0 7.02 \_ \_ VERDE RIVER Baker Butte 7300 3/14 0 1.71\* 6.62 15.74\* 42 Copper Basin Divide 6720 3/14 0 1.11\* 3.40 34 10.05\* Fort Valley \*\* 7350 3/14 0 . 92 2.72 8.18 33 Happy Jack \*\* 7480 3/14 0 1.21\* 5.21 10,08\* 52 Mingus Mountain 7660 3/14 0 1.02 2.65 8.77 30 Mormon Mountain 3/14 3/14 7500 7.70 6.16 0 1.24\* 13.96\* 55 White Horse Lake Jct. 7150 ŏ LITTLE COLORADO Inner Basin #1 9830 3/14 0 6.80 Inner Basin #2 10050 3/14 0 8.20 Sheep Crossing (Baldy Snow Course) 9125 3/14 0 1.17\* 7.07 10.59\* 67 Little Wildcat (Heber Snow Course) 7600 1.57\* 12.94\* 3/14 0 7.62 59 † 1953-67 Average Adjusted Average \*\* Data Supplied by U.S. Forest Service



SOIL MOISTURE ABOUT MARCH 15, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of		Date of		Soil Moisture (Inches)		
N ame	Elevation	Depth	Capacity	Survey	This Year	Last Year	Average +			
GILA RIVER										
Frisco Divide	8000	48	13.3	3/14	12.4	5.7	11.3			
SALT RIVER										
Black River Divide	9100	48	16.8	3/14	18.2	17.9	16.1			
Canyon Creek	7500	48	18.3	3/11	17.6	17.9	15.2			
Corduroy Creek	6000	36	13.5	3/14	11.6	8.7	9.0			
McNa ry	7200	48	16.3	3/11	17.9	14.7	14.9			
VERDE RIVER										
Mormon Mountain	7500	48	16.1	3/14	17.8	17.7	15.7			
Newman Park										
Newman rark	6750	48	17.7	3/14	17.6	18.6	16.7			
† 1953-67 15-year average										
			12							



SNOW COURSE SNOW SURVEYOR Baker Butte #1 & #2 SCS - Dick Enz SCS - Wallace Slade Baldy Forest Service - Carl Sollers Bear Wallow Forest Service - Gene McDorman Beaver Head Forest Service - Mike King Bill Williams Intermediate 3ill Williams Summit Forest Service - Mike King Bright Angel National Park Service - Kenneth Hulick Camp Wood Forest Service - Walter G. Richardson SCS - Dick Enz Canyon Creek Canyon Point SCS- Dick Enz Forest Service - M. Freshour Chalender SCS - Wallace Slade Cheese Springs Copper Basin Divide SCS - William Valikai Coronado Trail Forest Service - John O. Maeder Forest Service - Cecil Sims Crazy Horse SCS - Jim Powell and Travis Stevenson Emory Pass #1 and #2 Forest Dale Bureau of Indian Affairs - Raymond Endfield SCS - Wallace Slade Ft. Apache Rocky Mtn. Forest & Range Experiment Station Fort Valley Forest Service - J. L. Lockwood Frisco Divide Earl Barto Gaddes Canyon National Park Service - David A. Strope & Jim Valder Grand Canyon Forest Service - Gene McDorman Hannagan Meadows Forest Service - Warren Harris Happy Jack Hawley Lake Bureau of Indian Affairs - Raymond Endifeld Heber SCS - Dick Enz High Peak Forest Service - Cecil Sims Hummingbird Ray Freeman SCS and USBR - Jack Jorgensen & Jay Roberts Inner Basin #1, #2, #3 SCS - William Valikai Iron Springs SCS - Wallace Slade Maverick Fork McKnight Cabin Ray Freeman Bureau of Indian Affairs - Raymond Endfield McNa ry Wilk Ranch Bureau of Indian Affairs - Raymond Endfield Mingus Mountain Earl Barto Mogollon James Lyon Mormon Lake SCS - Jack Jorgensen Mormon Mountain SCS - Jack Jorgensen Mt. Ord Salt River Project - Bill Warskow Newman Park SCS - Jack Jorgensen Vutrioso Forest Service - John O. Maeder ledstone Trail James Lyon Rose Canyon Forest Service - Carl Sollers Silver Creek Divide James Lyon Salt River Project - Bill Warskow mith Cienega Forest Service - Ky Porter inow Bowl #1 and #2 Forest Service - J. L. Lockwood state Line Sunrise Summit FAIR - Ron Malfara (Sunrise Ski Area) Forest Service - Mike King Mite Horse Lake Junction White Spar SCS - William Valikai

Ray Freeman

Forest Service - Mike King

Rocky Mtn. Forest & Range Experiment Station

SCS - Wallace Slade

Mitewater

Wilson Lake

Workman Creek

Milliams Ski Run



### The Following Organizations Cooperate in the Arizona Snow Survey Work

### FEDERAL

Department of Agriculture Soil Conservation Service Forest Service Apache Forest Coconino Forest Coronado Forest Gila Forest Kaibab Forest Prescott Forest Rocky Mountain Forest and Range Experiment Station Tonto Forest Department Of Commerce NOAA, National Weather Service Department of Interior Bureau of Reclamation Region III Geological Survey Arizona District Bureau of Indian Affoirs Fort Apache Reservotion San Carlos Irrigation Project National Park Service Grand Canyon National Park Gila Water Commissioner Safford, Arizona

### STATE

Arizono Game and Fish Department
Arizona Stote Parks Board
University of Arizona
Arizona Agricultural Experiment Stotion
Water Resource Research Center

### IRRIGATION PROJECTS

Salt River Valley Woter User's Association Phoenix, Arizona San Carlos Irrigation ond Drainoge District Coolidge, Arizona

### PRIVATE

Southwest Forest Industries, Inc. McNory, Arizona Fort Apoche Indian Reservation White Mountain Recreotion Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 6029 FEDERAL BUILDING PHOENIX, ARIZONA 85025

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# COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"